# PLANT COMMUNITIES OF SELECTED DUN AND SANDY ABEAS OF FLORIDA - AS LABORATORIES FOR HIGH NOTICE BOLLCOY

WELLAN VANCTY DESI

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derecteding of Becoupy (unpublished Sectors dissertation, interrepts of Floride, 1999), p. 5. Schulte communic on the last of creliable beneding actorial specifically related to Floride.

One of temper of the plant waterfall in his war set the mean surphy plants, were the first lawy insure of the mean surphy plants, were the first lawy inmean as offentite laurating superiors. In most word, soon
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# Statement of the Problem

Plant communities in dome and many owns in his view were entered where the effects of confinemental influences upon vegetation reals he shourves. The most nettendate of the influences are painted wit. Then the influentation is enmained the effective was the technical third substal Mainter.

The ordinate were used in shoulding the plant ememblish Free, the boundaries of a community must be almostly defined. For example, the purpose of this cutoff to one served for a nimeter, the purpose of the distinct ensemblish internization. Joseph, the newne must contain without and navisationmental inframement that must be used or teaching monerical. Gertain of these influences are mole conspictors by their affects upon plants and well. For excepts, which influences the direction of greech of every plants are well as the topugraphy of the land.

In collinion to this hands confirmed need to the scientifies of places immutation, privated sub-less sections finance or mutationarie, among those sees the affects of staff upon scientific regardings and the affects of staff upon seast assumant on formations along the health. The emergin, the sent sectionals affects of the staff upon section on matera applications, for the staff-them shape of the expension, the staff-them shape with the sequentation. Many propies common than the previous related previous based with a sentence of the sequentation with a sentence that it most extending our first the shades. To their shames—

instance cannot be seen as well as which as the concept and assumed the other properties. The seed of the thin small feet deeper and which is the table when the beginning the pallow place of the control of the control of the pallow problems and increase in signal classe constitution may reveal that may be a considerable of the constitution may reveal that passes, the great queen and the discrebensing the pallow that passes, the great queen and the discrebensine bequeter that the man thin one is troughly be expected, but it is which the place by the requirement.

In this woody, the abstone forces sed their affects here been identified. The last obvious forces, on printed

ont obres, are also a tital part of the environment and are discussed. Many of those mobils forces are identified for particular location at a given time. Purguetions for citaly for these factors in a billion time are included.

Received to companion from two paters of teles. First, poles rememblish were substrate of Receive populatedly is then the tenther where well defined communities are present to areas that we likely to "reagh understrated," forced, plant communities have have discreted in the light of the workess entermented favore that one absolute and them, Nr. A. reached has used states anables to required

A part of this work provides description of class arbitries that are be employed to investigate some of the produce that will arise from class discussions and field characterist, a number of field experiences untable for introducing a class projects are suggested. The description of values projects are suggested, The description of varieties of varieties absumps, for the men part, assentions a period of observation in twent of much or raws;

# Idelbations and Definition of Curas

Areas impleded in the study are only these free the countries and done regions and the sendy lake regions of

<sup>&</sup>quot;Survey S. Armeld, Localities for Pield work to Santh

Florids. These done areas salesed from Foremedian least done the ear's comes to Terr Lenderdia and from Farr Ryres on the sould need be much of Smills Rey. The compliant areas natural from morthwart Florids down the ridge sention to the Bears and all Highlands downty. Thus a limit was placed upon the under of hinds of plant semunitation to be studied by

drive and dense are a peri of the stody. In outlies done may be defined as a dense in a state of shanghs. Totald the shawe like as notifies done may be interested in Aries from and bloom upon it by the winds. Purther easy from the other as extire done may be ascemmining more send or leading send. This later wint is recriving that a more stable smoothing.

Nobilized dono are also included in the study. In a condition done the month has been walningly static on a results of plant greats and possibly when facture. This type of them is smallly found a short director inland from the cetter dome.

The early area in his lake regions, included in the oterly, are defined occurring to their cell classification, which are the white and deposits of it. Dary and lakewed antl types, and pollow and gray made of the lakeland and

Ourtein plant communities are restricted to said types.
A send plac community is asselly found greating an St. Luny
or Sincton sell. Thus, by indicating the said type of an

eres in Floride, was in implying the kind of regulation that may negar on this sell. Inducted plant remnantian found on each of these and types are shalled.

The term "community" as applied to a group of assertsted plants in amployed throughout this work. It designate a complex organization of living places in recogniseble and the second second second second second second

span for designation scales may be the control of the same for designation scales are proposed. Several sear the same for the same fore

In describing the plant communities, a few emorphisms plants are used to identify the communities, ideal place, <u>Fines elegans</u>, serves to designate a land-diss form's Commucity. The same of a designate plant are a suchimation of

The relationship between onil types and the distribution of vargention may be seen by magazing sail and vargintional maps of the state.

The relationship between the state of the stat

of, New York: Fadran-Hill Seek So., Let. 1990), p. 154.

Tracy J. Corting, The State of Flori Communities, Con
Prancison, California, S. T. Freenan see See, 1870), p. 21.

contains plants (a takes on the mass of a plant necessity. There may be either plants constrainedly present in a wear plan community and most of the more comprises of where are included in the etoly. Plants mentioned are limited to mostly identificials must be sent in any plant community distanced. There is nece writing in plant species present

Turnizately is simplified, imphases is placed upon the absorvation, measurement, and interpretation of evvicomental effects upon regression.

# Selection of Areas

cross selected for illustrative purposes are primarily them that are limited warr population contents. Frierly was given to assemble sense that much wave best to demcentrate the prosence of maximum and indicates. Sense of those factors are wind, five, resimilar, desinare, said approtingual type, and light belowsky.

# Dies, of Risearnesine.

Chapter two presents a discretion of the origins of Finrian suchs, with particular reference to geological bintery and well types. In chapter three the findings from the wheely of the enterned plant communities are given.

See Pictro 15, p. 160 for the leveles of areas so-

Suggestions for the nee of plant communities or laboratories are presented and discussed in shapter four. The omnimizing shapter is concerned with the unjur findings and proposels for former research.

### ......

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tory of Florida will be used so the starting point in this ciscoscies. During this speak the area new notaged by the

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Interginalal stages resulted in one levels above the present con. The duration of the interplantal one levels was estimated by Raly to be bendreds of themsends of years.

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O. V. Cooke, "lunce Courtel Torraces in the Southcostons States," problemmen Academy Selectific Secret, NXI [1971]. 971-415.

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that summers intermediate where lines could have been formed by short stable periods during a receptor of the case. 10

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<sup>15</sup> DA

Agestony Salastific Assertal, 32 (1990), 189-599.

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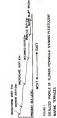
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Firefat is now covered by a manife of sand. The infinence of Elementjons in one tend is evidenced by the necurrons of mater secretal sand have and wine scoted dense from one and of the state to the wheep. The soly visible infinence of the locuse formation is the presence of lakes

ees level.

<sup>126,</sup> v. Socke, "Sockey of Floride," Haride Contestnal Survey Polletta Sa. 25, (1945). Dissalett, Lon. etc.

Did. These figures are interpretations unde from a respectio was presented by Nacioni).



ie the neutral part of the state. Versee, <sup>35</sup> Peasants, <sup>36</sup> and Levels<sup>37</sup> state that the process of solution to the Coula Insertes council a similar which resulted in the hundreds of lakes.

Loss than 20,000 years have chapted state the loss glocial stage. Hery of the old shows lines and he showned today becomes of the presence of the white send deposite still to done form. Sees plant communities included in this

### Seil Trees

The types of minim was important to the study of the plant communities included to this work. The dix, lony marks of minim is discovered by a width small from a few to may fine down. The form mails are nessectated with old source lines and mand some. The latestime extract the characteristic by a few tables of a gang worker layer and a lower layer exercit from that of pulser mand. The officerable-line formation understate the yallow man. The two mills are after a formation understate the yallow man.

intimests of inodall Teletelias and Sand-Plee Sureb, 5 impleing Bonerrana, Fel. 127111, c. A. [2014]ce 2798), 98, 311-377.

<sup>15</sup> Kernan, 1et, 151-16,

<sup>10</sup> E. M. Personan, Presinguity of Sections Suited Status or Sorts Refractible Seas Co., 1967, p. 53-37 Albert M. Lauvala, "The Origin and Secondomal Se-

Willier ends an analysis of the two sell types. It is assumented a high degree of sufferently for persists atta. They when consisted of above Dyo were aften seed. They have consisted of above Dyo were aften seed to make a segment matter. The Linkshott many contribution of the persists of the persists and the section working of the persists of the top three Links of seed. It was with that skilled by the cos milk expensed a different two of shalls community.

How research must be completed before the critical fectors that control plant distribution on those selfs is

<sup>&</sup>quot;I. S. Miller, "Scolariool Comperisons of Flant Commenditate of the Leris, Fise Type on Land Midges in Contral Floriat" (unpublished Marter's thouse, Deirorelly of Fiselds 1992), pp. 11, 25.







# energy I

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# Source of a Plant Company

If a pursus should ride through certical of Flortin the linear of Importing the Service and Invest the 12mm and these than America, he would not be able to resupplied different propriage of those planes, It would not thus revisite spring would not be resupplied for the revisit new touch and the planes pursue would not be revisited with the puttern would not reported ever and one analysis.

Upon any courtful contenties to weld to found that we are for principle, would problem and twenty, provide impacts for a telefole settlemental disturbine. This emittment of plants and estimized not remained meetilise any correct in classes one part of the notice, and one by referred as an plant numerity, he emphasise the desire easy, a plant insurantly in courtful peace by substring the name of the arm numer, completency plant or estimation of plants. Their masses are then used to minimate a particular type of the content of the con community will consist of many different plants, none of which will be sore superup bes onto member them boughest plane and turkey make. However, oftens the place and make are the largest and many contly observed their manus are send to label a complex arrangement of plant life made up of

# Specific Place Communities

There are fire distinct types of plant communities used in this story as examples, and their serv obtions characteristics are poleted swi.

The plant community on active send dones

has the Community. To seek comprises wit demands to the control of the control of

The soil that supports this community to fine stadbless cond. As mentioned above, the sail way to sered connematic from a communic wind blacker in from the water. If the sind salies the dissection of mersons of the anni sinvill be influenced, incits most done will have the pursuass of realty identified most and cover in leastless adjacent to the ratificate done commodities. It should be cased that these section done will be taken assured in the shore likes. It were areas there will be only one order from likes with a done hadned in being making.

First communities as the active most dense can be recognised by: (1) The process of see most as the destinant form, (2) The occurrence of other greece, views, and unsealed backs to purches, (3) Stewards appearance of the sead, (5) Soil condition of estimate dynama, emogr for the

# Stabilished dums plant communities

Figure scaling up the normalities on scalables flower and increased the none communication to means. They all have a big degree of resistance in element accitates protected the formal accidance in the communication of t

tonifous. In peatestle Floride the nest comes weeky plants are sorth care, in mericing, in surnifolds and sens yaons, that mediatels. In wast Floride back galaxies, Skrimmen practiterations, and dearf security, Specials medificatary frequently front. One pine secure on the alder times

The sell is made up untirely of wind-blows mean with little or no organic matter. The sell is well devised, and is sometime of a day untime layer and a deep layer beauthlarge assume of maintee from frequent reinfall collect in

These date plant communities are found along the Atlands does scoop in the Faction Key, along the posturing Only Const approximately from Hoples to Torpen Eprings, and from Allieston Harber ventures.

The intentifying communication of a maintimed from plane community ever (II) assessablence of whet-blows must not not be supported and held to plane by general med a fine, (II) the distribution of planes by reast, the same registering planes are the color for the properties of planes the color for the planes of which and traves of Dian resistant seasons; (II) the security of the color for the planes of the color for th

Culy one of the community moreys made in this study contains enterial from a typical sek hammock.

The form out or countly the national rower in these countries to Friedrich, but there are eften executed their trees, countly intrinsers, than size in the dentioner to reas a council to make it. Let us a d. 2. Littleman, and inverted countries, in the tend on the present, Supposite, only, in intrinsicial, sore the word, and are present. Supposite, seeked to contribute the same of the countries of the countries. The same of the countries form to alternate the countries form to alternate the countries form to the alternate these their same a cross-specific form the alternate these their same and present for the countries form the alternate these their same and the countries form the alternate these their same and the countries form the same and the countries of the countries for the countries of the countries of

hearty herry, <u>Callingras</u> associates, and reserves other species.

Here's and vince of many species are security presum in blanch homestic. Here in the hericascus plants are necessariable that forms are essentially assumed to present distance of the same common vince occurring to that assumenty are bendered vince, incline you, benderey, plant you present you. Suite present you have been been also be the present of the present of

tround over meally essetts of a thick set of leaves with a large of erganic debris on the cell surface.

The sell is often composed of the same fine cond then makes up the introduct and intelest sell series. Newver, the organic content is greater and thus the smissure halding capacity of the seal is much better than that frum in althor of the two previously described communities.

The sever previded by the cake and other hardwoods created a dense shade near ground lavel. This puncish the growth of those plants that are shade talarens and also tends

The distribution of each bounced commercials for Provide in less commercials may be a supported by the commercial paper. There is an a man betted areas covered by that type, dates it is assured to the commercial countries of the commercial countries of the commercial countries of the commercial countries of the countries of the

Them information is a second of the ani human's memority are; (if the declarates of the neal berrel make, (i) i emplement are in the declarates of the neal berrel make, (ii) is emplement or a case such underproduct, (ii) the presence of plants mostly of the memorial type, (ii) Edelphates of advantage of plants mostly of the memorial type, (ii) Edelphates of advantage of the memorial, (iii) and berris to make the thorne the plants of the memorial of the memor

Jani-Pinn Jer-

land wine. House elemen, is the designed time of this communities. Named and it would find the finance safe, Co. charmoni, and served lies sale, G. sarities, are present in large numbers. The relative frequency of such of those trees will were from one beneation to the next. Imperture sirche that may be found in this community are reseasery, Computals orientates, and erophot-wood, Estima formulant-Small please that sharacterise the Sand-Pine Soyah era prically mary, Orantia star, and four most lighter, Clarenta ren. These plants our necur in this community wherever it extens in the state. The property of all of the above plants in mot required for this type commandity to exist. In ner stree localise of loast one of these whents may be change become, with clear terresties one out ormally find the plants monthseed in any given sample of Sant-Pine Scrubtone smeales of stants restricted to the dend-Plea

formit area centr maly in servain servains of the resis. For complex has serve polestes, judge animals, serve hally, limit multiple, see where he design animals, service of early in the service of posturate Residue. This phenomena is also seen of the other plans committee in Phenomena in Phenome of the other pages of collection and polestes inferenmeny species of plants are declared in small propopulated. à esti incurativités et les habelles finh à tendre single la settingué due est de la descens ettes étacians du depur ins et tâte souls. It une le mone the chanc aux corrennes et la terre par la mone the chance aux corrennes et la try est des little de la setter seur libr, vill le supersing è indefens Joseb. Per l'intér espais estes à premi de la desloude. Per l'intér espais estes à premi de la dela lettre est de merien. Approach plus espais et les littles en tie merien. Approach que segui entre la section dures in ou le surquestique des dis-

Greand soow is assulty sparse ancopt is consistent spots where door most linken covers in large quantities. With the aumhituation of call type, almost pure white

end, and the Lank of much ground sever, the soluture of ditions franch in the server communities are underweited reregid greats. It can be seed that the soil is sharp well deviated sed the nurbes larger in very dry, in spine of the high annual residual in Fide-time.

man in secretared with show line dynesie of the wind and worse seried withe easies. In photone was the shaper two these deposits even to the center of the positionals and it intervals search the numbers by places that correspond to the various relia size of the Printessons period. The whole series will be only the Printesson period. The whole series was zero to the Omia Science Printess and empticate them to be compact relief of Parties from some the Secretary was the Secretary whole and Parties from some the Secretary was the Secretary whole and Parties from some the Secretary was the Secretary whole and Parties from some the Secretary was the Secretary whole and the Secretary was the Secretary was the Secretary was a secretary whole and the Secretary was the Secretary was the Secretary was a secretary whole and the Secretary was the secretary was the Secretary was a secretary was a secretary which was a secretary to the Secretary was a secretary was a secretary which was a secretary to the Secretary was a secretary which was a secretary was a secretary to the Secretary was a secretary was a secretary was a secretary was a secretary to the Secretary was a secretary was a secretary was a secretary was a secretary with the secretary that the secretary was a secretary was a secretary was a secretary to the secretary was a secretary was a secretary was a secretary was a secretary to the secretary was a secretary was a secretary was a secretary to the secretary was a secretary to the secretary was a secretary was a secretary was a secretary was a secretary to the secretary was a secretary was a secretary was a secretary was a secretary to the secretary was a secretary to the secretary was a secretary to the secretary was a secretary was a secretary was a secretary one has Their, homests of rolls from love on different many here are been offere in Poli one lighthen counties show the rings some to or and. Sorth variousless is essentially with them till when limes thereshes (Briefle, James variousless or or relatively years candidate domes asparishing on the merch odd of Reside shows like. In some rare kince the ladd, seas place yours on the latt takes of

This identifying alternative of the insel-fine fever area: (1) The presence of mod pine or the deminant region. (2) The encursors of heavy when grewth of sales and often researcy, (3) is lated greend conversely of fear mans (lather, (6) Deminy which and departs of wind mid order secret region; (5) doubtloss of nevero drysoms, (4) in converse instances remarkation.

# Longland-Pine/PerksysOck Community

This community is mused for the ten analous kinds of treat the ever in the med bill regions of Florida. Incodes free, Kinna manufact, and turkey sate, Sangrai laxid, occur in this community conduction from the continee rings were to locations in north Florida and west Florida contenting time incommission comp.

The most consistent harhorous ground error in vire grammes of different species, appain marketing and generalize. These plants may precide a very heavy error in some areas will in other orese they may he precent

is consisted turfs. This latter confision is often from in contral Fireids where the lengtonf-Fine/Turbury-Dak Consmity lies of jesus to a head-fine hereb Community. Deer mess Lieben is often present in the serve sparenty sensined

A mult plan that is smally present in this community is the popler syste, <u>Europealisms</u> plannicalisms. The swamps being in from one to hes desirators. This plan neadly source is small petches of tase or thrue motors in

Set1 types the suppose the imagine-f-lam/putary-disdomnsity belong is the hathand fortion. They are most often description in the suppose of the form two to one considerate fears below a large of word from two to one considerate fear phere a large of yellow sets, we make years, notions desp. Security the yellow made is a boar's of clayery and departs them set in "existence in the formation. The tenture of the set1 is then of fine send with now triple, if you considerate in Communication.

There is a variation in the ensure of authors in those colls. Dith a heavy ground cover of vire greenes, activities content appears to be higher than where ground cover in very species.

<sup>&</sup>quot;In M. Miller, "Hantering tomperform or Finn onmorbides of the Earle, Fine Type on hand Ridges in Control Financia" (unpublished Number's thouses, University of Finn de, 1970), p. 25.

The necessaries of Insagland-Teach/Noticy-Dol Communities of Paright for instances. This ensured by the insembling Tested in the need of Mill. The black regions of the special region of the need that some library. The the next community region of Parights that necessarily region for Parights that necessarily region for the benefit of the highest land formation. With requirements to the contribution of the benefit of the benefit of the benefit of the blackford and include substitution travels. But it is not blackford and marks may have formed that for the blackford and marks may have formed that for the white seed of the sizes that formed events that loves the white seed the sizes that for the sizes that for market that formed the lackford to the sizes that formed events that loves the white seed

his Englist-Clinic/twiny-shid community ered. (II De servirenn et l'origine pius ant turius value et the declinici terres, Cil The Intelesies et appire origine sense the shrike, (I) The presence et a present serve manifesting et brit grans with the sédition of now men tilent in the dyrop areas, (ii) The suppert et vagnitation by the will decline platform chalcades with terres, (i) Turius's platform of the turius with the present of this turius with the red of these bronze. These dated presents are predicted through the School original turius of the largest services turius through the School original turius of the largest services turius through the School original turius of the largest services turius through the School original turius of the largest services turius through the School original turius of the largest services turius through the School original turius of the largest services turius through the School original turius of the largest services turius turius through the School original turius of the services turius tur

community in Flavids should be meds. Even though this type

lationship of Jenfrill Reprinting and Hand-Flow Jorob, Scolering Messarrant, Fel. IXVIII, m. 6, [October 1556], pp. 501-50).

of community is probably one of the nore estendive ower in the state, thousands of cores of it are being absured yearly the soil type that supports it makes up the pulsa sizes lead in control Firein, and to were Finetic it in of increasing which as land for referentation with alsely piece.

# leader of Vacatational Communities

# inseling technique

The following tables and observations were designed to cores toe Character, Florin, they posted lists of most of the designate formet to be place communities discussed in this work. Screenly, the nethods used to compile this information are whose that one he suplayed by teachers and students in their stations of the communities.

To the node of wagatains one one make sharevalence and free counts justices of the types of justice that make up a force; or a fixide. In those of the fourility of the set! on the part of the parties of the set the fourility of the set when the parties of the p

Here the greatest value is derived by studying living speckages in their natural habitet, information in this standard was taken directly from the field and proposed in a form that sould be east on a grafe for the study of the same

To mhere and otschede will puls most from field work by making eccurate records of their measurement and shear variance. Governing the meditional investigation will worked the measure with of a stody of plant semmatities.

All or the community emplines included in this chapter were taken by masse of the transact techniques. A brussect for a sugment of lend two motors with and a selected womber of motors have. Plants greating within this even are necessively the presence of anni species, and, if desired, the number of

Finate entering in frequenties of less than 50 per cert, from in less than helf of the transacts takes in on eros, sure unities. This was done in order to shorten the plant little letters, these plants may be tacked if a detailed, less years wisnly to contemplated.

The symbols used is the following flash lines one "IP from the contrast in a transmiss in a transmiss. In a transmiss, it is made in the contrast plant was recorded by the number of individuals in and transmiss. Transmiss our supplyed in ammonitors the presence of typical plants for one of the ammonitors the presence of typical plants for one of the presence of the contrast presentate, arrays now. But see now from limits fixed by the contrast presentate, arrays now. But see now from limits for the contrast the contrast the contrast the contrast the contrast the contrast can be intended in the contrast the con

Non-pain mass used in Note seet very lifeted at front in the eventue elitics of <u>Finites Note</u>. <u>Note that Note that</u>

# Pintings

The following calles and sharmandom were emption from information polared by the nappling weekingers describes and our parameter to dominatives a marked of tetudring information above plant removalities, to present which analyzes of the communities considered in this whosty, and he give nows officients inchementon when the persistent benefits not not dominated our particular presentations are not dominated to the connectivation such as

For the constitute is a second to the constitute in the constitute is a second to the constitute in th		10. hyperat here here here here here here here her	Ди он минионинично П	1 MM MARGON NO M HOO	
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A Copposation at 17th the second seco		Specials and particular to par	**************************************





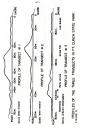
Community on Community Colors in Page (Street State Page

Dissection 1 to the control of the c

REMARKA,—Toward I are bloom to Meave match of Lowing I. The low does war feeffered in the limit to be Christian to I. The low of the bit prige was soon lowstaffigures and Longer than to the Price variant. The credit was jour to for major a cream. The lowest does not see that in 1 the Price variant. Only I to the low the lowest was as what flowed to the Price Transact. In credit was the wide and executed by Firm 5 to 10 consistent of Uniter, A clinic secured in 100 content and the pared read at 100 major lower lower lower lower and the lower lower lower lower lower to 100 major lower lower lower lower and the lower lower and the lower lower lower lower and the lower lower lower lower and the lower lower lower and the lower lower lower lower lower lower and the lower lower lower lower lower lower and the lower lower

Tennest Lastronest Last takes served braded to that of the two province transports around for the granter the first second consisted a MA consistent of consis flut. Secondalism was the destroyer plant in the flat, but there were meseral other barbs propent and a few assistanced should. There was a description at the end of the flat. The turbed great. It the bosseth adea the does rides was 15 to Manhors high Manager second such of this year. There one 1944th resolution to the area. Hithin the blowests ---- satter done with tentest done recentables. The back alors cars the resources of series into the hamnel more verstation use statler to that found in transcote 1 and 2. I near considerant feature found in the homsely not the areintence of low dupon company by dente vegatories. These dense were not continuable to the first ten transmits. Jell conditions were the some or previously stated. The pered read nameral at \$55 satures.

In Figure 5 for a profile of the area covered by the



## Chargestians ands in the Fort Clinck Area

- l. ler stable dense were frend near the beach.
- I, I dame ridge about 15 to 20 meters in highth was nown builted the low domes,
  - ). Sarpo blaucets secured along the high done ridge.
  - in New artise desce assured as top of the high deem ridge [See Figure 6].
  - 5. Erreales of the bosset by the high done ridge use abnursed (non-Pictre 7).
- Naise dones were encopiesess within the hammeds. These were frome to wardous Lessities throughout the park, but they could meet easily he shoured in the compling Area.
- Wind-shaped regulation was present along the done areas exposed to winds from the seems.
  - Repression economics relationships were front by conparing the plant opening and confrontestal conditions
- us the different age deser. 2. Janleted stands of sake were present in some of the
- 12. The call and under up of first white send in the dame and hammed; grace of the park.
- 11. The humanes type community and cores on a good describe for the illustration of conjected relationships.

# Figure 6. New time entirity on top of the rulis demarks in Fort Chinch State Park,

Figure 7. Invasion of the hemsels by entire funes be-



Communication	Species lanes	a.	1	3	3-	4	1	2
1001	Spinia, spinning	-	-	н	н	-		H
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Property, and	Deplies sancia	0	۰	н	н	н		н
	Specifical day	н	н	H	н	н	н	н
	Spirite personering	۰	н	н	۰	н	۰	н
	Spine produces	н		H	н	۰	۰	м
	Spanishers Intelligen.	н	н	н	×	н	н	м
	PETCHOLICIA, MONETONAL	н	м	н	н	н	н	м
	Personal Property	۰	н	0	н	н	н	н
vessors I's	Seed and a beautiful							

Plant	Species Sense	Д.	g.	7	4	4	14.	2	1	1
was Separation	Presite Hitshell	нн	но	нн	нн	нн	0.0	нн	00	нн
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on ) agent on etals set sea)	Personal prosess	н н н	н н н			н н н	ннн	ннн		ннн
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1	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO I	1 -		<b>}</b>   ~		-		1	
Orde plan	eres) "Ode plant also seems in the adjacent some but is set desimant.	1	1	3	1 8	1	1		

Description of vagotational sense covered by transcote at

Transacts of this confr were taken from the beach on the Atlantic Count acress four regretational scane to the adja of a Angeom, A brief description of each of the mones (Allows)

# Sens 1 - Done Secretables

This orms constitute of her dones sens of which were established by reposition and others which were being both for the force. Finate found is take once were typical herbaceous beach and done plants. <u>Smiths</u> manipulate and <u>Princeptions</u> benefit properties were from to be demand.

# Zeco 3 - Grass Flat

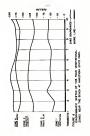
This strip of regulation was obstached by a heavy error of green, juguinize tircinium, which pero the apparament of being a rough laws. There were nonclosed plants of julgomia narmeds, havin marking, and primaring stiller.

# Jens 3 - Managery Community

This error was whichin the daily tidal same. The mean complement plant was informed mixing, black mangious, a solid greated come was provided by <u>Addressia</u> mixingle and <u>haid partition</u>. Toury were consulted atoms of <u>intridus plantition</u>, care come is Secondary Oreas Stores

This once consisted of an electr pure wand of instalna alternations, mouth configure. There were consisted three of injuring altifus. The mouth was covaried at high tide by at least ten are toults inches of union.

ion Pigres I for a diagrammatic eletek of the few vegetational sense on femal in the box transcets taken.



Moneyer have made to the treatments from York ten

# I. Chearentines undo to the heads arent

w. Wind-blown send and low setime domes are present in the banch area.

- b. Send was blown into the grace fints (nos Figure 9).
- miles merth of the park boundary at Ds. Augustina Feath. The area fast morth of the large dense gar wridents of severe wind ereaton. These were vary for done wrenest in this area large Nove 101.
- in the form of different and dead grass necessialities envent the windowed base of shrubs from there. (see Figure 11).
- o. The Hingrero Community and the grace march vorucovered by mater at high tide, at least in part.
- f. The board within the park was repented from the mainland by a tidal lapson that extended elect to the contines park beautery of St. Angustine Donah.
- 2. Cheervalians unde in the homsels erest
  - The vegetation was station in that found in the Fort Clinic State Park homeout.
    - h. Vegetation found we the largest new memorally wind thosed (new Figure 12).

- o, There was come wind and water arctics of the edge of the larges.
- é, Rollo dusos were conspirment throughout the hammedt,
- ). Checreatics made wort of it, Asymptime slong to i
- Eighney file law relia domes neverted whence K. S. Highney fil morth and neuth of St. Augustian. These domes you made complyings by the presence of most pine greeing so then and soil resultation of white small.

Pigure 9. Wind-blown mand on the grass flat in less stocks Thate Tork,

Figure 13, Wind oresion of a time in Americain links North. See note are established as desc. Scale in phetograph spacin are mater.



# Figure 11. Solvies weaked and bloom around the base of a dorsh in the great flat mear the book in America's State Bark. Soils in photograph equals one motor.

Figure 12. Hind-shaped trees at the edge of the hu



PRINCIPAL SPECIAL ALCON	TAN DOOR	1 100	OUTS IN THE CAR MOREOTE INTERNAL	3 4	3	200	8	100		
Species Smen	A.	1	3	1 3-	3-	3.	3-	1	3-	1 92
-							и		v.	ш
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Selection and the selection of the selec	×	н	н	н	*	н	н	н	н	н
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Spirit Sprinters	н	0	۰	۰	н	н	н	0	٥	н
16,50	н	0	۰	н	н	۰	0	٥	н	н

	1896	Ĭ.								
Spector Same	EL.	1	3	1	1 3	1	1 2	1	1 3	II et
	1			•			١.	·I	-	1
Spring Specifica	н	н	н	н	м	н	н	н	н	н
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Light respiration	H	н	н	н	0	н	н	н	н	н
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Marrie South	•	н	н	۰	•	*	0	н	н	н
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Species Buses	А.	ŀ	7	-	3	2	3.	4	3	挚
office and vices			1							
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Charles of Street,	0	н	м	н	н		•	۰	н	н
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Total Phone	ñ	н	н	н	н	н	н	н	н	н
Percentala sudata	н	×	H	н	×	•	•	•	e	c

The transactive wave calses for the perfe error beginning more the Thursdam norman and according seems. The present read was used as who have and a possett like maked they are also as the present the seems of the transactive wave population by other varieties wave population for conversations. Other narrors were utilizely populated as greened level, but occurred by a

The compress of <u>Fines please</u> was restricted to the highest greend in the eres needed. This fast was reserved in the testacets as higher greend me approached. These Trees were found in the conter services of each transact from number five himself to.

#### Observations undo to the Combo State Said to-

L. Dissawaniana mada (n Topola State Park)

rervalence.

- The desirant plants in the homest were intell minutes, fourner insufation, Pursus Supposite, and Plant glasses.
  - Toprishine on the high ground constitute of plant variables that could seem in a lend Fine Community.
     These were Fines slaune, Smellet Spear, and Jaronee
    - o. The reil consisted of white ered with about five to ten continuous of except matter on the markets.
    - 6. There was evidence of wind chaping of trees and
    - shruke as the fullfus lifer brendary, s. <u>Sanin</u> or counts are observed oreastmanly in the part area. This plant are used as feed by the can Florido Delians. The nutrhers pure of the cart
- contained remains of Indian behitenion.
- s. A large cection of land morth of the park on the ald highery contained two types of plant communi
  - tire, bardwood homest and mad-pine soruh,
  - oured regulation populations intergrate belows: the mini-pine sursh and hardwood homests,

taux 6

Sandar Sana	the state of	41807	ŝ	autar.		8	Mary.	Į,	3	
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rest			ı		ı	ı	ı	ı	ı	
## SEE	н	н	н	н	×	+	н	н	н	н
lends										
Special perceion	H	*	н	н	н	•	H	н	м	н
SQUAR SARROLL	H	н	۰	×	×	×	н	н	м	м
Oppose succession	м	н	×	н	н	н	н	н	м	м
Special contacts	×	н	н	н	н	н	н	н	н	н
Klassia sanziona	м	н	H	н	۰	×	×	*	,	•

Comments on American solve de ferror and a constant and a constant

The area secured by treasects in this park began about 100 meters could of the main selection and extended routh along the first tend on the under intervalse, appropriaty the along the first tend on the under the eventue of a fire trail at the park becoming.

i complished fact energying the plant population was then of mifroutly of a few spector of church and mand plane. There were few barbs promote in this wreaAnnual control of the female and the

- 1. Concretions sade in the purk, east of the railress
  - to The entire eros and covered by relia dunate.
  - to The Still consisted of white sand errored tith a light litter composed meetly of sak and pine larger to There were here more in group where me vecetation
  - and 12ttle tegetetion existed.
  - The Plant plant, and pine, nomined in dama stands. There were few other trees to the dama encept in disturbed green where introduced teriotics eccurate.
  - to There were very few must piss swellings, fo The could pine trees were about 15 mature tail and
  - ment will were learning with the proventing winds (non Figure 13).
  - g. The struke formed dense thickets about one nature tell under the pine trees. Suggest spridfulfa and Suggest gendents were previousless with furgistals actuation occurring frequently.
  - h. Section scientise ever in thick chance in open areas. Much is accorded under the pince, <u>Sections</u> nee and vigorous in growth hadds.
  - There were consciond elivarish plants of <u>largeon</u>
    <u>degralais</u>, see polarite, elong with the zero common
    group variety.
  - for There were few horhescence plants in the andisturbed eross.

- h, lishes of several species were common on the ground and species from the trace and shrubs.
  - In disturbed parts of the park introduced plants are investing the sative savel. The most important of these fermions are several species of <u>immerion</u> destroits plan.
- 2. Conservations and to the park, west of the radicusts
- o. The hand-fine Hersh extended to the edge of the fin woods. This flat woods regulation covered most of
- h. A Shash-Pine/Yorkny-Dak Community occurred about one fourth mile mest of the pionis shalter on the Juntum Plane.
- 3. Observations made in the Wast Pale Seach areas The rules deem Securities canadad up and done the Florida nears for many allow. They wave expendally prediction to and arrend Josephan Editions learn Park, but Many wave Freed Free Not Peri Senderalla news to include sensitions search on this personner.





PRINCIPAL SPECIAL ALONG TRANSPORTS IN THE SAME-PING SCHOOL COMPUTER

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tion dam	1	ı	x	x	r	x	x	x	1	
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(Chapma Statement)	1	1	1	I	I	1	ı	1	1	3
Square, 2007/4	1	x	0	I	I	1	1		1	3
Concess servicedta	1	I	I	I	1	1		1		2
Charles tangets	1	1	ı	I	1	1	I	1	1	1
infinite charries	x	I	×	1	1	x	1	X		
Chapter oppose	×	I	1	1	I	x	x	1	1	1
"Hill Bage!	1	I	1	1	x	I	1	x	1	2

<sup>&</sup>quot;I denotes presents of a plant species.



Species Renor	22	12	형	aff.	***	15	ug.	u <sub>yt</sub>	19	- 20
Final Final	1	I	1	ī	1	z	1	1	ı	I
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Car parriaga	1	1	x	z	1	x	x	x	1	x
Carra Charidana	I	1	x	x	x	x	x	z	ı	1
Chapter Caments	I	1	x	x	x	z	z	z	z	1
PRICED, PROSPA	0	0	x	x	x	z	۰	0	x	1
Spaces were to be a line	x	ı	ı	I	x	I	I	x	x	z
Courses contacts	x	z	I	z	x	z	1	1	x	I
injains oberata	1	I	1	x	x	0	1	1	x	0
Sapar apply	1	I	1	1	1	x	1	1	I	I
Table agent	1	1	I	1	٥	0	I	x	1	z

7-Continued

Oposton Renor	ī	2	3	colo	nete 3	-171	ı Səpr	u.	7	,
Opentia no.	0	0	1	1	I	x	0	0	1	•
Toron busilia			1							
Inline ferrusiana	I	1	1	1	I	x	1	x	1	1
Tecrisian spreighten	I	1	I	I	x	x	1	x	۰	
felefacio festi	x	1	I	1	1	I	1	x	1	1

# TABLE T-GREATERS

Speeder Russe	11	11	13	politi	13	·	200	u	10	20
Opposite Charles	x	1	I	1	I	x	1	z	1	0
term tenta	x	1	0		0	0	۰	0		0
Splices Corrugions.	1	ı	1	=	1	z	x	I	1	1
Escalatus surminibus (Nicoterry)	I	1	1	1	0	•	2	z	2	X
Palaconia Court	1	1	x	1	x	1	x	I	x	X
Signature meet	z	1	I	1	z	1	1	1	x	x
Salarizella aruntaria	1	1	x	0	x	0	1	1	x	I

Community on transmints tolors in the Archheld Stateming

The Archhold Scingland Science to principly most fulling formers to Middiscult research and encounterable. The furnished states and the same that the states of the Science Science of the Science Sci

Transcent takes of this riction acro all disasted in manufacture forch. The benefacy between the see plant conmunities was countly indeficite to secons of an Schargering even of from 50 to 100 outers mids. The immediate were taken from named pures of the second across in order to obtain a reprenessation manufact of the registration.

The imposents were taken from the following positions using the fire tenur of the top of the MILL on a reducents matrix

Trunsacte 1 - 6 were taken from the north section of

Jailborn M. isseets, "The Grigies I Innocessaria Re-

- the serie running from the broad fire trail toward the weet.
- Treaments 7 6 were taken from the morth mortion of the neath remains from the broad fire trail tower the neath-
- Transcets 9 20 were below in the east corties of the nersh starting about 300 maters down the sant fire trail.
  - Transacts 21 16 were taken in the western part of the earth starting sheet 200 meters merch of the mein
- Transacts 27 20 were taken in the mentions sertion of the earth beginning behind the pump beens of the actures read.
- Assistant plants of interest securing in less frequestion serve, limits mariness, health tenue, lieu qualitation, and defeated fratheres.

## Sherrentoes made in the Archheld Sistagical Station and

- L. Chierwittens in the Archbold Steingtonl Stations
  - \*. A Slamb-Pinn/Turkey-Dak Sommalty was um the areas of Red Sills
    - h. A Swid-Pine Serub Community was Seethed eraced the base of Red Hill.
  - Sub-fine Serub consisted of dense chande of <u>Figur</u> <u>sizes</u> is porte, with heavy vegetakine because the sizes.
  - Plante restricted to dead service of peniarela Florida wave found at this Levettee. Jone of these wave That municiple. Surge Hardson. Service Equipment and Substantia symmetrie.
  - o. A broad intergrade band of vegetation existed between the two types of plant commedities on Red
    - Joll type of the Stash-Pine/Turvey-dah Community was of the yellow mand, inhelend series. The Send-Pine Sernh Community was grawing on typical white mand of the design of typical white mand
- Seruh Community was growing on typical white mand of the Ot. Lony ceries. 2. Observations in the southern Highlands County spens
  - \*. The seekhern limits of the Milgs were found to be leavied 2.3 miles to the cost of Mighany 27 on Mighany 70, 5 miles work of Mighany 27 on Mighany 70, and 6 miles would of Mighany 27.

- b. Rush of the Hidgs in this area was overed by
  - c. There were relic done ridges so the marters limit of the Ridge. These may be best observed from cartal photographe maintained by the N. Jetl Communication Laurence affice to Makerine.

	E	President	3	attare.	witte.	81	aler.	Į,	1	
Species have	L	-	h	-	-	4	-	-	H	PI
ress.		-			н	н	н	н		
THE PERSON NAMED IN	н	н	*	н	н	н	н	н	н	н
Personal principalities or a principalities or	н	м	н	+	н			*	н	н
arbs Artesia mrieta	*	*	н	×	н	*	**	н	н	H
Olive grate	м	н	н	н	н	н	н	н	н	н
Collic Southern Silver	н	н	н	0		٥	٥	н	e	н
COUNTY STATES	0	н	н	н	н	н	н	۰	0	۰



Community on transports taken on like \$1 to Conta Manhamal

The plant emments was knowled 7.2 while mass of likers Springs on lighout 50. These tennects were taken from the morth dide of the bighout oner the Florida Forest Service fire tower. The Longlant-Stan/Towkey-dak Community excepted both oldes of the highway at this point as wall as to where pears them findows the

# Observations made in Domla National Percet, Site \$2 and ab

- The sell type was of the yallow each labeland series.
   There was little experie sever se the surface.
- 3. The dominant trees were <u>Queress lastin</u>, terbay only, and First maluncia, laughout plan. <u>Queress lastin</u> ness such more prevalent than <u>First</u> malaticis.
  - is There was little evidence of remoding by Figure subsection

	Ten	ŧ	ŝ	and and	wd80.	200	apers	Janes,	1	
Species lines	L	ŀ	h	1		+	۱,	-	L	RI
100										
Cons clean	*	н	×	н	н	н	н	н	н	н
AND VIEW	H	н	۰	н	0	н	н	н	н	н
proje										
Anna latenta.	н	н	н	н	н	н	н	н	м	н
Service parameters	н	н	н	м	н	н	н	н	н	н
Correst Chamball	н	н	н	н	н	н	н	н	н	м
Course sortifolia	н	м	н	н	н	н	н	м	н	н
America and half	*	Ħ	Ħ	H	×	н	н			н
Correl of the said	M	×	۰	0	e	м	×	н	н	м

Secondary Steams	2re	framente, 2	ŝ	Partie.	alde.	200	ş	Neg.	1	
and a street	L		-				-	H	H	B
cube essitioned	ľ									
services actendar	н	н	н	н	н	н		м	н	н
MODELL AD.	н	н	н		0	0	н	۰	н	•
	н	н	н	*	н	н	н	н	н	H
Trees										
parister speakables	+	H	н			н	н	×	н	н
SCHICLE SCHISSIN	H	н	H	н	H	н	н	м	н	н
Salaria San Laboral	н	H	H			н	н	н	н	н

Community on typesants taken on Sinc #2 in Opela Saligant Parent

The area of investigation we sitested 15:5 allee easi of these project on lightery (A. The transects were been at the enter matter of the outh microal from larkey on the month side of the highway. The regulation on molfrer or the operator of plants, the three were multipressed to the vegetate of plants, the three were multi-possings to the vegetation ensemble. These spentage were pepulated with a greated confidence. This continues the continue of the continues of the continues

This was was difficult to skudy becomes of its dunna strain growth.

### Chapturious in the Sand-Pine Scrub of Goods Satisful Forest, like St and the surremodile aims

- l. The transacte were taken in me area of mature pine track.
- 2. There was a unt-over area so the south side of the
- Dische under the pine true form deme thisbute. The prededicant thicket forming places were <u>Content</u> wortfalfs and Content contents.
- in Barbacous plants norm of little eignificance in the matern Assaultes Arreb Communities.
- 5. The sell use the St. Lory white each type. The error were made up of dead learner. The span apexs were covered by at least two species of Singlella, deer now lither.

  There were senseited from account months of the account.
  - 6. A small erus had recently have burned west of the stone
- 7. There was a large borned area II miles east of filter Springs mear the antersec of budger Springs. The fire secured several passe see, so the actual remoting had been well scennyllohed by the time of this observation.





TARKS TO

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The treasects were taken in the dume area yest of the large parking let at the public both bonce. The length of such treasect was determined by the presence of a yet made

Three physiographic funtures were sited in the descestration lession. These were the end of the active damag, a majorday trail and the web walks.

Hint: climatic largest services, and Her gishes occurred on the benefory of the scale. These plants were greeing in the deep sell and were not fromt in the dry many error making on most of the stople spress.

Manyorties to the St. Indoor State Say Inc.

- Observations in the error from the paved read to the shore line, (stable the Park);
- o, Typical stabilized dens formations were present with
  - h. Namy of the mand pines on the nameral side of the rend were dead. The park experistualist states that
  - Living much yines were observed to easer much along to the obser than were observed in localities along the itlentic court.
- 6. The dones at the where were from three to tec meters high.
- 2. Observations in other park arose and winisity:
  - come of the dum ridges surved way from the share b. There were a few ermse bound Grand Lagren that were measure.
    - Large dums formations enteids of the park and along State Highway 202 emphoried grands of descript maprelies, Regards grandifiers.
- The inference Teals reft is Asserted at the settern tip of a pantennia facular the verters where of the extremes to St. Andrews Ray. The topography and vegnation of the area are

Species Bases	A.	100	7	Die.	4	7	4	3	品	ŧβ
ANGELIE SPECIAL	*	н	н	н	۰	۰	×	н	н	-
Charles present	н	н	н	н	н	н	н	н	н	-
ANTONIA PROCESA	н	м	н	н	н	н	н	н	н	
Miles 20th .	н	н	*	н	н	н	н	н	н	
SCHOOLSHIE SCHOOL	н	н	*	н	н	н	н	н	н	
DATESTON	0	м	н	н	м	н	н	м	н	-
Con-resided	н	н	*	*	0	н	н	0	н	-



Commence or American Arbon de Pero Michael State Barb

The technolog ware begins 50 enters used of the force of the booth, east the park gate. This mean considered high whollished dones with a good grass covery however, or hack side there were server binevers. Ninet believely from the west opposed to be west infilteening for some year of the west infilteening for some years of the west infilteening for morter could be west infilteening for morter could be west infilteening for morter could

One plant of interest that received behind the desce to wet depressions was <u>kryppedium straktetown</u>. It is economic desp flatwoods throughout Fierdes, Goorgie, and alabase, has it was found in this women! habites presing vicerosaly.

Omeran contents. Her residents, we describe markitable secured to be violately, we sid on fall which as the transmire. Hen pillostid, when you, we showed in the eres to a west-describe condition. Now though these plants were under observable societies, Numerican femals nesse from the less these pures were presents, and remands of tall more and the part were presents, and remands of tall more are theoryte.

## Communicate under in Port Pickers State Fark and the sur-

- a. There were found along the Dalf shows Man consider spable time fermations of les settre femal. stable bland domes (smabibleed by Dyiela), and tall rules
  - b. Sail you use the white sent of the St. Lace series. red only under this resolution on the rults descen-
  - t. Her residence, Courses contacts, and Courses. work that to formed domain this shade on the faces and back slapes of the rolls duner.
  - 6. These thickess were accorde wird shared up the up-
  - s. During the worker and museur months the provedling winds were from the south; however, during several menths in the fall and winter resonant he wind dimanten and from the north. This was consults to the northern "leasing" of the wind-showed worsten
  - f. Terretation on the north elds of donne, the heat where, did not descripted the wind-shaped forms.
    - s. Many of the relic dense excisined Farmella. spendiflore. There was cone redecting of Springlin where the recentsion and think.

h. Yer: Fishme State Park was observed on the end of Santa Rose Extends therefore, it was absent one plately surremned by under. The Laland unreaged about 500 meters in width in the park area, Charrentines in the Penergia area!

### 3. Cheerye

- a. A Plaintenant where like was present in dendance Personnels. Die hemm non eereme Palefan Street at the L.M.C.A. It was treesd for assumit miles and and web.
- h. There were extendent, formations of raise dand-fine Derek Communities in the Serth Rill Justice and in the area evened the Justice of the Assum and Garpesters Orock. There were unture communities of this twee in twee Jameseia and Marcinitus.
- e. There were many Palis duce areas no the Galf Break highway.
- d. There are conspicuous vegetational possition of Sulfleast,
- s, Sage-Pias Seruh Communities were common on the wort also, around Valgarains and Historillo, and on the
- merth side of Chestachetches Day.
- unia to Pt. Valies Boach clarg Highway SF.
  4. Good done formations, cotive, stabilized, and raids,
- ecompad in the Destin eres.

  h. There was nemptreons regrestional assetts along

Michael Of man of Dunkley

### -146

This chapter presents the plant community or an expenination of plants that one he identified and shadled. Haconsiders present characteristics of the short like plant community, Oak Neumoda Community, East-Time Survival Community, and the Langing-Time/Train-Toka Community.

Techniques that one he employed by biology touchure and their evenings to every places and their confrommutal inflaences are described. The transact to employed so the

Detromation from size salested stress for presented that has been compiled by the transcett mapling method. This for formation executes at lines of rows common plants from its the salested insulition, its addition summers and observations principles to each beautify nor insulities this seniplant line. These sizes beautiful formation compiles of will of the numerical transcripture of the contribution of the contriburity with assummers.

i cap is presented as a means of readily locating the size relacted localities (see Figure 15).



#### ----

PLANT COMMUNICATION WITH AN EASTERNOON

# Introduction.

Do be a dillamente seen to discover a problem. In les remergia semplations to such temporales, as pintone sen in the longituding of this fitnessentime, the other believes then one no in gained from the entiry of pinton shows they are a thorous the study of pinton shows they are a thorous more of continuous morth inflaments. Date these months is independent smooth inflaments. Date these months is independent and the continuous districts and independent of just conceeding the continuous districts. The continuous continuous time mixed by the discoverables of pintons and the continuous districts and the continuous continuous and the continuous continuous districts and the continuous continuous and continuous continuous

obspace will be used to present one specific engravitions protects to important nativitate constraint of the important protects to important nativitates constraint of this plant conmunificat. Annual content of the results constraint to the fine power! community types included in this output over librarie. Additional cutritates to a landament in returnal reprint from the internal content of the constraint of the conmunitative man are unliked after the discussion of each nameaulty. There are a few things common to all plant communities the fellowing life instances some of the findness enserring oil plant communities that desails in investigates, Queenties will be reised and some information beight in finding

In short our the designat plants?

2. What are the most common plants other than the deminant mast?
3. What are most of the factors that tend to perpet-

community he identified? Team of them sealed

o Organic matter in mail

Datafall Tour-round semilitiess of:

2) Temperwise 1) Edge Interestry, within and without the demanding 5. What effect does the designed vagotation have upon the surroundings?

De the cominant plants maintaining their member bytomme of good repredention rates of the deal plants is a sign of a stable community. 7. One a shange in the deminant vagriction he de-

 has a shange in the deminant vagration he deterned;
 i foot for the fallows of the deminant plants to a light for the fallows of the deminant plants to be deminant plants.

The following list contains engagerises and artivities that will and in assembling the general questions emecuring plant communities.

#### Asso techniques for start associate formation to

 Note a vegetational analysis of the community. See the transact technique amplayed in chapter ten.

). Establish the setl type, County agents one gi

to Chest the well type. Density agents one give antictiment here.

to Chest the weather yearson for the area if they are

 We becomprised maps and sorial photographs to identifying turners features and essentially standbution. The U.J.O.J. Bell Sensorwates Electric effices usually here a file of local surial part graphy.

 Ever good records of all field checrystians as equipment date. These records shauld includes a) Observations and regulational analyses from the variety.

b) lime parties where postings studies were solds. These alreas should be stated not and reterestigated over a paried of years. I keep histographic relevie for table comparisons

## iner Courselle Suture Print is Flast Committee

A discussion, which were the lacetimes reported on in the proof through an beau propured dusting with some of the important factors that can be identified in five types of partners assumentiates. Following the discussion of such comsists in a list of some assumed existings for fields only.

#### Shore time sheet communitates

The first communities to be considered are these as or near the show line. This discussion includes these commuciates that are most directly infinenced by the malt appropriate Date formalism. -- The machenist of send done formation one he prefetched to two separts, wind-black send and wisstructions sensing the saving send he note.

Expected of sent make up and of the seast line of Flaction. There will be a wise blooking in from the case for many membe cuting the pear. This wind force will more the fine grains of sent over from the sheet line, is these man grains are seven they are corred into waying along the authors were gray mayned the forthern forces and

The smallest cand grains will be those being corriad factors hash from the others show they height to serine the frecentions, principle registers. The sports of places then one environ the constantial enumeration of med around them cames the pile or forecase in height and breach). It single densi starts will provide samely of an observation to

It may be discours to alternate we experiment with cardinated does formation, alone the statistication of used of principal processes to the description of Finishia and series. A straight new of based decidency my files of status and dead plabate processed to the contract with the proper design and dead plabate processed to the contract to the contract excendinates of most to a deep time. With the purpose designs of break work a prince of does formation will highly they will be of greate value for excending the servence of man, that the processed of the processes of man,

for this purpose,

The less stop in artificial done entallimation is the planting of the preper species of plants to hold the sand in plant. Ins sate and sand genus are the most imperiant entity receise they can be said for done entallimation.

## Stabilitation offices of varieties was send dones.

b. One of the new inpersion reports of the schilliantion in made diments it has underpresed structure of the places forwised. One note and enhance passess that once on sortion and statistics dimen here an enterior's thinner option. Jungsell that has bloomed been placed have simple (Dimens Persis, Villa the Alloweshine places have simple (Dimens Persis, Open conductation of these underpresed entertween it will be determined but have down to the lower own schilling valid.
before a simples caption of relations our creat's helding the same

2. Leaf and ston structures alone ground contribute to the similations of Games. If the surface is overere smll, there will be little wind series reaching the smll surface. If the murface ower is square there will smill be a nontralling entice of the Leaves and stone stepping wind-blows

 Organia cuttur, contributed by dead plants from provious graving consens will bald mass in place enter undersia elizable conditions.

### Smooth of you supp on antigo and during

ce domen that are in the process of changing. That is, said

is accomplated around the plants. This makes the dum tabler and the plants seen to grow once more reptily.

2. If times are constant that here become exabilized by a covering of vegetation, it will be seen that the vigor of the see eats has dealined.

3. A stricting enough of the eas out plant re-centslike both of the section and area was determed in Part Silvin State Parts. On tay of the old these their have stated for years (large only are greeing so then) was not are excludinted in the resent kinesis system) beliefed mixers from the above like (see Figure 6, mars 500.

b. In will be of interest to investigate the individant phase of on mas to discover one of the features the eve important to the phase's chility be currents and expression under countagir ofwers conditions that pressil in a com-

making life of most.

Street of the glass country of the glass country of a group of lawres small on or the call. During country of the call. During country of the call of th

of lasty esterial on the entrace of the diss.

(2) It will be writing thit repeated impossion thin the said speny does and inhibit growth to any large degree. During many days of the pear these plants will be use will said savery.

Minimum of stabilization and domps—discounts are the probable of rich freshing through the opportunition care or to the date and kineting may increase of made. Jone blooms he there is not extended to the contract of the sure than three and here been extended over the years to the year like of them. Then it must not bloom may, as not written and the sure of the sure of the many and many many

This are the consect of them knowney? These send is made by Julius cylingth, the lowed term expectation or or expect prior of a time to the prior of the formation of the complete, parts when to the formation could be supported to be supported to the control of the control of

Constant with Marriay through a set me of size Mantoned by Sourcess the Lineau, is wishly, Langth, and dopth-There some is to Elithic attend centred to a Manusch until the topography has been laveled and man domes legisl to Drive. The emissical of blownest by me is efficiently, but it are be assemplished by sweather of one domes and planning of supportional lower. dist.f.diss.—this his passing of time a number of fectors work thereof the swindlishmoot of nature plans since number, were so much case. It was be dominated in many stress that as sub homend versure chil dome ridges. If dering the hundred of yours of these limits description, the readers, some of the necessary of these numbers. It was readers, some of the necessary of these series only as

The devalupment of regulational server precessed innerge or weblat type, sent as the out hamment, reas as I have Olizah, Da. happarise, see domest besche. Ender different oftreemments them rolled cause small he served by membrane them would be served by membrane biddees from the face of the cause of the

Own farters framello to the artablishment of these more nature communities are preterious from curror wind and main sparty, and more constant measure of only mpinture. This loss factor is sided by the accumulation of angusts medimatter to end hammeries.

The factors influenting the freestion of employing servic and each hommost communities will be discussed and enlarged upon in the following statement concurring those conmunity frame.

### Wind-blown affact.

1. Executation reveals that <u>Har contests</u> and species of set bows us bust sudge. 2. The appriors move of the statistics progression for a strate of illibrate of the instanceal tollibrate, this assess to as the forth instance for this instance for the instance of the transfer of the reportation. The later or the superior office of this strate or statistic and telephone are results which telephone are results and telephone are required order on this lateral or strategy. This new last the telephone representation of the desired affecting the most protection, preferred the earth protects, this differential result of protects will rewrite the same protects of the state of the s

3. This infigures must be exerted ever the should charing the stear ported in spring when the tender bade are exceptible to dampe from sall openy extract by which and fundamental from whole.

is in soled reason for the above electronia in that pressiling vision vision may be from the opposite obsertion. This is term of Francella least where vision in the opening and numer are from the month; become, dering the vision to vision are from the north.

<u>Kind storm denome</u>. The existence of a number of dead and pines in the sadewed Natio Park witemlated on fervatipation to finester the name of the phononecom. The park superintendent reported that the death was a reveil of previous storm conditions along the Colf receiv.

Pennacia there are a wave imported immediately after incrimene think of September, 1965. There was much origines of wind sterm image. Tender tegeletizes on the back side of dunce wore lilled, copenially now bales. Sirguess resulfingulars, both policeros, protesses a new greach of steam and soles price to full flowering of this time. Plants of this type sheared in the beach area were billed hand to the old greath. Plants for the peak proof. Plants of the side proofs. Plants of the peak proofs of the plants was provided from the plants was presented for these plants was presented for these plants was

A number of large pines were observed morr Donkin, Florids, on Highery 50 that were occurrely allgamed on the OALS wide by wind shown deman. In seep instructure ware than 10 sec casts of lather learns had been to turn brown.

From those two complete its one is essent that the latification of equities receive an ab off emandativella papername to observe like respectively. Multiple, and oblige of representative system are some of the detect affected, but selfctime, where it is consistent with the clotic between the referring the latification. The contraction is the contraction of the contraction is the contraction of the lates the between the indicate the results of latest the softence indication. The contracts is least the contract indication is the contraction of the latest the softence indication. The contract presents of nonlinearly stated must be of manufacturable contraction.

Remords at the United Parish Dather Duran at Panasoths, Platific, show two days of high winds for the much of Suprember, 2000. Some of the information exhibits show that on Japaneser? the highest wind velocity for the most was recorded, This see 37 Miles yor hour. For the 5k hour parties of Suprember 7, the reverage wise velocity use  $50^{10}_{10}$  mills par between the part recentling nearword metric whether the supersiters we Suprember 15 failures that the transvers wind velocity requirement which day, dering respical wassen flowly, and 90 white per heave. However, the representation of the period of the peri

One teterpretation of these facts sould be that the errorse wind valuebly for long periods of time is more influenced upon varieties than briad guate developed during bluederstown entities.

Delays now of the syndrome then more this damage was be disconsisted. In the simple of reportation there was the prescriptory of the visial integring rices the Oulf and the statements of the native times through emperature young by the same wide. Spreeched this empease said at a wayfor frame is this damage available from steems. One man was reported to the same available from steems, does more and the statement of the same available from steems. One man was resulted to the same available of the statement of my larve resemblated upon the regression. This first sould be orithmic as when deliverations are not offer received.

Constint of verterion. -- Along the Sect Cut? Coost, there are mentions of where Mine plant communities that can blift close verteriolated assume. The Levelities are of particular velon to decomments this plantaments. One hearing

pert. These measurements were taken at the Statistical Adr-

is on Dockin, slong Highway SH, and the other is at Oalf

Tomotion in Conservations there are no informations of classics of the first for the team. The manifoldment of plants in deliberation which prescribes to the same than expense in its reference of classics, from the same that the prescribes of the classics of the classic classic classic content of the classic classic

Considering this has seen severy entrinsectal sendtense areas means there is large, it seed follow to these gloss such sixth fitters for severall under state states the target for severall under state same of the season of t Less well odepted plants will be established as mear as the soriremental forest will purelly

Them, regulational counting will some seconding to the shiftings of plants to exceive and the distance of the plants from the close live.

high Linearity—Major intensity clone the serve lines of Placials in of real Reprinters, but this Enfluence space requirements, but the Enfluence space requirements on the release unlane one mentions the end; places their non-clusters high light intensity VIII. 30 from the his space places that no security high light intensity VIII. 30 from the his space of the contract of the con

Improving, --belies of weinr influence the last versus ease then by sorelar the temperature to be more stable one the messer. However, in parts of the done stables from the brease center from the water, messer temperatures May reach past 100° 7. This is appossibly two of the sparwidy source from a the muchain ferment the dutie.

inil minimum --inversey to what it may seem the first few fashes of well of the sizes weed in symmity for emost investigately fallenting relies. This is a result of the absence of segminis wetter, Jones small forestions continue when for part or all of the year. From under those conditions the count nor wide or of far sell on the configuration. The rideness of the designat deep granges develop in this meter sail.

Artivities for additional investigations in where lies

In Security the light intensity on the beach with that

2. Flace one brush in a ree on the beach purallel to the aroundline whole and absorve the results for the sent fee

3. Mg into the exed dense and measure the soil selectors contact at different levels below the surface.

i. Investigate the form gross rhiness development in newly formed mand draws. Look for ald rhiness actuaries at larger levels that may been loom formed while the draws were

matter,

5. Stady the married mulities of the date grasses

that allow them to live in moving tend.

6. Leave states in frost of, so kep of, and ot the rear of an estive dues, themere the shanges that will seem in the size and position of the dues in the following months;

in the wise and position of the does in the following months.

7. Empart where vegetation for the secondation of main super of various distances from the curl.

6. Ompare the shape and general growth characteris-

tion of a single species of slove front on the front of dense with these front on the book mids of dense.

%. Report the direction of the presetting wind forter named puriods throughout the year.

10. Which for mer grack to secur on skyche and true expectally during the spoing. Impost mer grack corabilly for ordence of damps. Try to constitute the sease of any statement damps, to then peace causes the offert of new gracks damps as the colins shade.

13. Import for dead trees and should thus may have

13. Detained to which makes of plant repredention in different representational sense, less reproduction ensure by relations, seed, or other mean?

#### Sale Summerly Community Law

The following reserve was note with particular relavsions to humanist their ever from 60 erometics with or name there likes. Omally those homestic will like upon rolls dones. Dany of the inpersons faviour discounts will be decreased which the homest. The third supportion mention protective novembrings undo as the valle set rend of a home error is more victual our relavant to be beauti

Jeff screening register—The see to observed that the soil of anh hamments is somewed with a things and other decepting solects. Open sometiments of the soil at depths of 20 to 20 certificators, one was ally finish while short, identical to that sailing up the extre and domes. It would some that the presence of this organise matter is one of the important factors in the oriekticalment of the homocity, it forces this entertied has the affect of softing the soft most appropriate in southern upon to holding seture. Near of the plants covaring the ground in this commonly would not convive if the top for continuous of the soft would day out as well as of the force confinence of the soft would day out as

Which come first, organic metter or the homeon? Probably the organic extra recomminate from reputation is seen of the certics communities and a fee of the more herly make histone established. SIMILO by 1888s the homeon's gree into being, organic extra secundaring from reputation,

 $\underline{\underline{\underline{\underline{\underline{I}}}}}_{\text{SUBSTRINGS}, \dots, \text{The Longerthere within an each homest where high domes likely wind advantages will resemb between <math display="inline">\underline{\underline{\underline{\underline{I}}}}_{\text{T}}$  , and 100° T. For o for must in in the norm tongenture condition that the statillar is that freed in more trapical regions,

If our he stated that for most of the year, however of the thick regolation soling up the hammed, tourpristing changes are more ground than those of most other plant consomittee, Air elevaluation to showed by this constitute,

<u>function</u>,—Interior conditions of the hammed are in-Clareson by the high bonding versily present. Some Corners that constraint to this benefity are the entirers half by the exil, the thick vaporational coner, and the quantities of water transplied by the vaporation. became has been filtered by the vacutabless, owner apprished be the trees and shorts. Puls assessmally will there be crossed same hors to different from that from widor the etter eftentive veloce shade is wortled. Florie that our diffusers in few or prescrites, when from within the bramade. The definance of Made detention were the creeks of smeater constant to comer and shady bareaters, fone plants presentant as being present is the honors on well or on

Motherity, were competitive, and the Light littlestage means in persons a billion stall relate for a smooth of plants. Epiphysis will grow will be the teres shown they make deposit upon frequence and which bending to wellmain takes weathers supply. The next common applyses from for nurbars Parieties to Insurrentian Greek. One of the small anothers Parieties for Insurrentian Greek. One soft the small anothers readed the seasonably found as to mean't as killmen and desepting, freeking, forms, on the plants are form-satisfier next common in Samuelle Ferther works. One of the process of places need topicions to the immediated or the mail outputs entire in the Powner places. These places are not necessarily in the population descriptions of places remomentar in this study. They cades no attraction to the control of the places of the process of the process of the places o

MARKA, Signing formalism, --lowers of the differcess in temperature, Light, and mainters at differed broads in the soit homosic there are then layour at vegetation. The key layer as energy constitute of the tops of the designant treats, only, ampailies, and keys. These treat results of season emuliate yet their roots are in a relatively seed and water.

Small trees and should make up the second layer, All of there plants must be should telepant or they will not complete.

Divisional plants, present every, and small selection and use has been been designed of inguisities. Before consistence of the large transmitty and higher handlings incoming one higher handlings, these plants after selection of the large transmitters. Enverse, for many fortunates the constantion of the see supper larges of vegetations the constantion of the see supper larges of vegetation of the large largest the constantion of the see supper largest of vegetation of the largest la

Stateduction and remotition for survival -- Neisture

in tateson. Only a year few of them stants will reach A press of souls from a starte start will prefete traffiture to proach and leaf area development. This many that they exice, if ther are gradus sizes together. The vicerous own now he able to enteres white employ to their winfells. Her eties, but it west compute with coult plants for light, growth. One lastence occurs when made full in or on the

In general for a conditing to produce o unique plant within a leasant it want he shade tolerant in the freeding much profes, day plant for a species and whost statement will die if the needs do not fall in to span spaces. A healthy plant community will have the coperity to switched the leasant spaces of the profession which is most opportunity with our consistent of a

large true has allowed many light at the council baset. hancefurties of blad should be lasted for by the ster section

Treasure of humanity by anniquelly assessed breaduries of humanics to Dieth Dilach Darks Book to next tooley become sectional convenient of said. It is interesting to charge that a neeter of the trace and abrobe are exten for a few The wind factor typebred here to time. One the human's warstartes as completely up the new panel methods for an in the nerouset the roptof Neet of the normsont of sand in the Part Obtain your in ton routh under the present and of circum-

here farters that would be of value to sharts to this struction was the ability to develop administrate rooms on lifts rates of represention. For of the designed bassech defletency the ment invasion continue twist some physical Forter such as distance from the shape on a protestive lar-

rior devokes source the stery lies highly the send sourcest. Jonistica for additional impatientiess to Oak Demock

CompactAfair. L. Drawert wheats of the same swarter crowder withte within the homosit? Compare and desage to plants leads and embelos.

1. In these a distinction between chade-orderent

 Is there a distinction between choic-referent plants and those plants their commet curvive in direct con-

i. Just the sell cover debrie for decay expenient such on warteen front and ables mobile.

5. Are there may conflings to the hammonic Compara

 that young plants are found in openings? Are the plants of the owne species on these within?

To Place stokes at the bottom of investing mean denses.

6. Establish which type of vegetation to greated to be now word, humanic plants or date plants.

SandaPine Service Communicate

In reference to the description of the inservine form in chapter three and the attenuation to chapter two of the origin of Florido modes, it should be kept in side then be origin of the cuttle of the error becoming our probably from above like separate. This plans summary could be support to man front as weaklished dones, at least with reference be outling and from distincting to that come plants secur in both plants. MRALIME, and self, repro-order to the believe Res-Petal trends it with zero present. Due between two crossional spec upons, the said isless obeye mentals at white and with hereby my organic seasons, approachly one limits and wore, to present on the engine melities orplicately believe to can be inserpreted to separate whether which the said. The multi-organic between the said of disease. Here been downton to be indeed or control to staticar in the said of white or distillated show the contra-

Bilds timing—throughout the state hold-Fine Semile one between open ratio domes. This can be seen along the Parolds have Seen in olser instances from certs of Oninguestics along it. 5. Righosy Fit to the Fort Londovictio error. This community type also recover in many places on the northduct count of Florids from tilinguishe Series to Bilding. Alcham. And-Pins formbe over m the free-like deposits of shifts and foliate. One surclassion of inst-Pins formb conversion and a front with the positions of del Pintelmone share likes that can be makered from topographic steps. The collect correction to front 20th stores like deposits at Highland and keep Consister. The photographs must be under upto topographic space we reliable and one of these mother for most by it. In feeredle to profits communic of domes in

The lander of most being-only observative test of west piece is may of the wear where he pays to their lander or chemic VII. for one direction. This feature is pretinsately actually all makes it has been been post of the Figure VII. page 75). The opposite test have been first for Figure VII. page 75). The opposite test have been first for which excernsors, for a short the inflames of the preventile wide means the lives to have with the subset. This oppose we have the regulars to be a lightful and for the verse of heartest the regulars to be a lightful and for the verse of whether Historic states were of the trees has vertically, with the verwillies with some from the littlest feature.

The other explanation to that extract which name the leaning. In Florida this could be extend by winds of ar mear hurricons force,

I. N. Lausela, "The Stricks and Suncertant Relationably of laufall Regulation and Sand-Fine South," Scalation Reservable, Tel. HYTH, m. t. (Orieber 1916),

Her of mont since, when the meshap has call, we dedendroped true for stands occurring in instruct exactlities. Land pince that court is sensital error are smaller and often scaling share-stratuming produced by source certification. The mentioner, "The best excepts of this is a comprehens of level freed in the Genis Scruk with those freed in massal.

Journ descripts and gloop. The most plant sees to be more emergible to wind and solt openy desage that some of the other, yangen, and where wordy plants. The firmer necessaries of most plant and sales one small areas may be syttent to be the description.

His. and numberials of the distance—less from the common field of such. These context has given every first be disposed of each. These context make these of attitude the leaves, the new sect with the one house before it is the same along up a link. The time required for a yine section of the context of the same and the power. The beginning fromth context of the leaves are not all to prove. The beginning fromth context of the leaves are not also proved. The beginning fromth context of the leaves are not grown. The beginning fromth context of the leaves are not grown. The beginning fromth context of the leaves are grown as more than the leaves of the leaves are grown as the strengt context this fromt is the broad with leaves the leaves and the leaves are not be all the leaves the leaves and the leaves the leaves are not be all the leaves to be more than the leaves the l

There after then met, the came on the case place in watern Porfice all years of activity and the masks will be dispersed, predesing a continuous serves at case for propederation. It may be not features in containably about or spen some problem by these trees are containably about or spen of astrony. Pare or as full to cond dispersal messes the set greater when the knew places is predesing Marries. Matches the cases upon or set they are predicted to all of

Imminizer, of . Immirizer bornh (normalizer -- is provinearly discussed, land-time downh formanilles seems prisorily on the withs made of fit, long type smile. This is a timtionist's community observatoristics. A specimentar Climiner Line of the made place-while used relationship was be formal as the insurances of insichene control formattices. For this many follows more up that the first this wide of the white that. There exists your of plant immediates sentime and new well formation. This man instrument is not being resonance, or many follows the host of plants of the control o

Benedition of matter at Annual Facilities (Section Learnance) and Laboratoria (Laboratoria Section Laboratoria Section Laboratoria Consideration). There is no for facilities plants from the facilities benedition. These operations are not the section of the sec place survived to control areas are olse required for mavival in inland populations, apparently the indirector plants present these marginal elementeristies.

Intelligence of the Company of the C

he on Calleges

with the parency of the clong with the finetweiten of the lard, those plants would have been included from near relations. This immission would allow generic differences to

Ifferent spotter of plants one to from filling identions testagions without a widely opposited morth commominion. <u>Olimontian mind</u>, a shouldy wine, occurs in the court labs region in perfectle Florida. A species than has the mass opposence groung in the annulus of Sections. Finetic in function commune, instance sample in the encurvance of form [Intrium, restricted to perinamin Heride, while in Septembi Tarifet the same configural action in Filled by a minimar species, form militie. Species may be restricted to small arms, but their scalarical minks to white filled action seating seating in distance communities.

Assiriate for editional terminations in Scot-Play

 Lecuie Sond-Mac Serek Sementation on certal photographs, or Scalegical Survey Maps and Empart the tor-

2. Smadas the roots of some of the small herbasoms places. Does the length of roots differ merkedly believes

3. Smarks the structure of a maniples seed, vily will six ourrests carry a most of this type for long disterest.

4. Gurlly hast mana young nature mand plot come in a lot off even. Note the temperature when the comes spon.
Reserve the month and loss than for representation retarding.

5. Mostify as many types of nurrical aschazions on possible money the different plants. As exceptes, the

linhous go into dermany during dry periods, and east place yoly upon air currents for sent dispersal.

the community. To the direction different during the greath touces of the desirect vagetation?

7. In receival localities, establish which plants exhibit the mast damage due to wind after storas. In careful to made the condition of the hade on that in our to established whether on each new proudt one is progress when the damage converse.

f. In posteroid Floride, import recently burned and

 Along the morth Oilf Count, which set a few areas and esset the number of trees with open sense and chosed areas. Compare the percentages with those found in each pilet.

The fillenting extifution may require the interestinates to termin delity equatoral inventions to gather information. It may be servisively as existing the vector presents between bindary clearer to separate subsects on that information could be shorted connecting delition communities to different pures of the worse.

In community the markets of blants from in command.

Sand-Pine Communities with those front in the inland Sand-Pine Communities,

32. Flat on emps the areas in the state where species are implicate.

12. Indicaba on maps where mand pinne comer with different some characteristics.

13. Compare maximum store of mand pine in ocertal areas with these found fallend.

li. Owners this kness of the growth rings of send pines in constal communities with those in inlead communi-

#### Langious-Pino/tophny-Out Commetator

The England-Ton/Printerpolish formulaty appears in the codes offference from the Societies for Sommulary, but the two leaves formulating in the two leaves many shafter and disconversation on them by NEMCom. To different beat one purchasing was offered by the law years. The Sangland-Ton-Sprinterpolish Community has two their yardest shares related to the law years. The Sangland-Ton-Sprinterpolish Community has two their yardest shares a return of this shares plates give and Tall. Other than the damp related of these when the becomes plates are present, the community is formulated by 22 to two contained war presents, the community is formulated by 22 to two contained warps presents.

figure name of levelant Ziggs-whos of the fortwested freet when the implicit plan is that in remains in a since classy, skiller for with all greats, the served pures, which plan mentions of struct speaks assume these enough provid arter most presentation, the longitud workling grows so closely for Out allows the works when were plants enough with here opencatively to eventuate the plant. There may be a structured to the control of control control of control of control control of control of control con

somities of the Berle, Piec Type on head Hidges in Control Flarets\* (sepalitated Shotor's threis, Colversity of Florida, 1990), pp. 21, 24.

this slow start, but the fast remains that this graving plants will have the best shears of survival over the learnest view.

therman numerical,—In more lengther-Provinshapthe formeritae the principal mount owner is wirepress, driedling michigs. This green may be appread; sentered or in may resultive a done mand, then wirepress occurs in done mande it is one of the best competitors for servinal

In referentation programs to sectioned Photolo, this grams to placed under its order to Laure good recriming for the swelly planted plan coeffings. Today material coefficient this process of this grams may control the rescuiling of many commonly ambiers.

Institutes of implical this condition it inclinates from a project of the condition it inclinates for the control of the condition of the control of the con

ond previous mass have useds and organize matter than was prevent. In the language Tempe Power hat Community. Engined plan wouldings learned for the shade will see serview, as the pures pare former plan modelings will mease for the new monity, and more hardword will result mattering. This prerieters will thinwardcastly sentime must mady this hardword was present. Thus a now assumely will have replaced the

The effects of fire on the localesticite/industrates formating.—The following elements will be distinct from syrrel pure sizes there are different effects of fire on the various plants important to the community.

In 180 was of fire on localest financia strate fire.

will bill longised pine you so it will other phants. Seesee, the sections of wish pine will convive grave firestruct that with pines in the secondary. The previouslepars of the pine moviling has for reviewes to heat to take him. 2 was to descript to a broad over that it had not pine workings here services, can though that leaves may have been more mount, and that growth sizerie.

1. Effects of fire as sorby out and white hardwoods for bounding once valcing likely filled by fire than you plane. Then a community of kind type luran, most of the hardwoods will be cladated. On the other hand the sorby oak remains us a co-deminent plane does be taken whiling to prefer now growth from the substantial year system. Her only.

is this root system protestive for the turber sek in times of fire, but it is also a unjer mones of representian and appreciag of the sporter within the community.

- t. offices of fire on the greath of herboores plants. (they structure to the destaurs ground orner in most onementation, the presence harrows the greath of the seasonal berbasees plants. If a fire burn the wiregrass at the sppresciate time, an observably element youth of harbacorus storie will be charried. This stear shapes in the plant population may be essented for by at least too methods. First the burnies of the siregrees redoces the sementiates for Light and nature. Scotlings have a better shames to survive, formally the fire could consultably desics the coef conta of many sends that absent to come a higher percentage of garmination. The Lower the cause of this increase in herbaneous signs necessarise, the increase is short-lived, Fire our been wiregram to the greent, but the plant's tough rest system in not horsed sed the plant will srow back to the same I stoke to a few weeks,
  - in Her and the azimtuma of the commutity-old Light of he reviews offered of Her on plants in the languart-Plant/Partop-Old Community, where we are important condicious to he from. First, the chantance of plant species will choose with the accounts of their processes will be billed and the name of their processes of the supercettypressent in greater numbers. Associ, the languart plane and turing axis present which was reliable alternative the her detaining a second to the contract of the contractive the her de-

other community neshers, thorefore, they are more 1984) to rends offer o fire, It may sail to this present has last, interfereign communities have been emissioned for insorted of years by actional bresing. Otherwise as expands under accountates hardwoods may lavade and harmen the destinest treat in a community.

#### anistics for editional investments in londonfticallular-dat formattics

- 1. Observe the differences become language plus conditions gracing in the shade and those gracing in direct condition.
- 2. Nahu regulational analyses he determine whether the hardwoods are investig the community.
- 3. Inspect the hark of trees for five demans. A recent five will leave the bark charred on the tree trains, that five deman is indicated by the occurrence of our bark in the marks on tree trains.
- 4. Ensert the spector of plants that here corried in a community that has been burned recently. Establish the slas of the smallest surviving plant.
- Look for the reprelection of the two designant plant species, that are the next common methods of reprelection for tarkey out not longinal plant
  - 6. Compare the occurrence of harbocous plants in the community during the different reserve of the year.
  - community during the different consecs of the year.

    7. Consec has these berincome plants meletals their consens. Sport being, Se they reprehen by cond. or do

table? Note if some of these plants are present mest of the year in an incomprisons low-growing form. A. Ormany the reservance of plant modifies with the

8. Ompare the coursess of plant coeffings with the

Orano-Clab, Hangrove, and Harabyrean Communication

This fact seekin of shorreable creats in plant commentions periades to the area included in the treasure takes in the Assatiath Park Park. There are exists create along the sect line of Fiories that up to med for story, has been some furfacilly by the settler.

<u>Immetic seas</u>,—at this bootily the dum ridge is low and discontinuous. Swring high kinds and stormy conditions can make breaks ever the dum Line and drafter over the great fix into the lapon. This, ylor storty and from the one, make much be more over the great.

Immediated. NUMBERS—Pure these constantions of the regulation sense Suilb of effective that these benev them the provided in the suilb of effective that these benev them the grow-fits will be undervised forting point of the day. Will never suith for extend that the suit that case he can be all provided in the case of an extension from the form to make the barries own it the grant-time, according there has then fit the leaving the Managementime, and the case of white each of the first of the Managementum of the case of contract of white each of the case of case of white each of the case of the case of white each of the case of the case of white each of the case of the case of white each of the case of the case of white each of the case of the case of white each of the case of the case of white each of the case of the case of white each of the case of the case of the case of white each of the case of the ca

ages, Vegetational exception is apparently influenced by

intitias for midiatonal importantions in Drass-Flat, Naugrena, and North-grave Communities.

1. Note the boundary of taxading seed. Easy a record of the rate of mercanics.

2. Seek for akjusts in the grace-flat that may here heat moved by satura.

), Expedited the high tide mark in the flat. What in the maximum depth of erior of high tide for seek of the con-

i. Determine whether it in the depth of mater or the length of time covered by unter then is important in the formation of someth.

Continuent by he Included in Propertylean Day, hebinistics

A little of equipment to his used on Findel deep deside to also will be inclused on the creek. The Sectil deep the relationship of the creek of the section of the section of the contrast of the creek of the section o

- 1. Small diameter rooms marked in maters, or a stead
  - 2. A place of Dettino one natur lang painted black no one side and white on the other or earlied off to declarators. to show relative size is phetographs,
    - to Statement tonservey and notal personant. i. Flant pressure

      - 5. Field mitter, plante.
    - 7. Ommon-looping transacts straight through desc
    - 6. Photographic analysis and 15rbs maker in Middle
  - desirable because of the interes light in white sand greenly
    - to destatance if sail complex are models

    - 11. Sharebea

## Denniss o Field Trip

For the most affective use of time and energy, a field trin should be correlably alasted. Other on eras for study and prounted the alone to much a manner on to obtain this necessary for the operation, A list of suggestions that will

- l. Salact an area for study and source permission of the park superintendent or owner to which the area.
  - 2. Note a line of the things to be investigated.
  - ), Sixids the class into team of two or three stedemic such to immure experience for all and a complete sollarities
  - of data for the class.

    i. Complete all notes and data collection on the systj. Make more of reliable transportation. De propered
    to pell extensibles one of deep tend. Mish coraful driving
  - begging does one country be specified,

    6. Set my deter on a calendar for visits to the same area during different country.
  - Soughets will date and reports and discuss the findings in alone on some after the field trip so to precition.
  - f, Make place to make additional trips if more ob-
  - 2. Nonp personnel reverse of all studies. They will be of value for long rouge studies.

#### -141-

This couples presents a glade for the investigation of processions. The procession of the contributions of the state of the couple of the contribution of the couple of the couples of the

# CONFTER

#### Statement of the Problem

This work is designed to provide teachure with nuterial for the study of plant life and the interestion with norticemental fartners. The plant remonstry is used so the heate wagnestimal unit. Clarity of community types and secusibility of the communities to bindary shaces are criteria used in their redoction.

The approach to haved primarily upon field observations, with marchil planning the dynamics of entremental sreets are he incurred as they come. Since Line result are as expendilly marked for those investigations. Therefore, vindence will be more impressed by the discovery of biological relationships by plants wisely in give.

### besteried legislated

A discussion of Platebourne geological bistory is premented to show the origin of the present Florite sands. Emphasis is placed upon the formation of show blace during the interglateal periods. The calested place resemblishe name on present and rules where line arous throughout the state. The pushagic origin of the eatle of the included communities is directly related to the necurronse of the old above. The calls discussed are similar to the selfs from

# <u> Cintines</u>

From possive types of plans communities, which with a unity unity, leave the planes has been planed to provide and insufaci-from/purpoles, own forcement and industrialmentation and has been been been bettered. Deer some mattern our forcetter of value presents to type one mattern to provide a few being presented to type one mattern. The advantage of the present to type one mattern to the present of the planes of the preting and the plane lates on wife a to give extens of relative insulance of the comprisent specific or matter or a protected to not previous information to not making our discrepations of communities to not making our prolamped to the previous information to make one pre-

The insulities calcoled for enalysis come in size perm and protected areas where it is unlikely that the fafluores of two well discuss the conditions described.

### Application of Findings

is the application shapter neveral expects of each measurity are discussed. It is pointed out that there are

was placed to the second to the second to the second to the second to the support of the second to the support of the second to the second to

#### e Prince Studies

Purther investigations such so these which follow went ald Floride beachers in using the living things in their on-

- Receips similar acturials for other plant communities, for comple them from it equations and contracted healthcome.
- 2. Secretate the enimal communities with plant communities, Initials one usually conscious with supplies the communities.
- White plant and coinsil lists for least cross elegwith stady enterials maded by the elementary and

- i. Study the feasibility of in-service training
- 5. Derestigate the absvellers and aterefaces

#### osebusies

This work was designed to provide him bunching enterrials for high exhall history teachers. The following conclusions were made ofter the propagation of these materials.

- Provided sid to given to torohore to galeing more testant information in their localities.
   Dife work description that plant communities are
- 3. The sources of setarial ere evaluate is a large
  - portion of the state.

    i. Tolumble finite work to provided for high school bislacy classes of mixture expense and scalamas

LOUGHT as interruption in a condition coursed by (ARRET: a vegetational securing, such as the tope CO-CONTENT FLETS o plant of squal important community of two conspication, desirant plants, i.e., landles/Plan/Pairwooks Community. DORIGHT PLATT: the unst completees true or large plant in a community. The community case is derived from inits blant, Low, insch-fine boreh. IFIFETII a plant growing on or ottocked to and ving or deed plant, but not paraditio uses it. COUNT NIME a conspicuous ving formation nom in a imageyards out of a woody Stam. It is counted by secons l bookies and, by implication, cariron-NAME ONLY COURTS the covering of a cood that a permit the uptake of water. The tood will not possible the possible to security of the most in security of the most in the possible to the most in the trees that ere seted for their hard wood REACTORERS are recally billed by Creft. DISARGE PLANTS: may of the ecceptaces plants

pumminists a woody or burbacoust plant living for

PROBLET PLANTS: plants that are the first coor to become extellined in a bore eres.

FLEST COMMUNITY a group of plants living tagethe in a characteristic babitat.

NALES DEEKS a done that has been elabilised and befu by the resemble of the man chare. EXECUTE an underground storm.

DEATH TOTAL THE STREET THE STREET OF PLANTS to gree under

MIL COTER; debots from decepting vegetation occurring the sell-

actum uses in the extention name of an organizat when the enert openion is unsatisfied.

199.5 on observation of the plural of species. This is and when her are more species of the sens organizators.

197.3 on encornation of the planel of species. To is used when two or more species of the memo organism are indicated.

TRAINCY; a ball type masuring technique and in vagotational analysis, absult a conveniency about two searce about by neveral bandred enters long.

THERE on selected rook that December on a food storage organic.

areald, Serbort Julius, legalities for Field such in hereal street, they here: Tolerand Calming, Calculate Sin-
Sand Territor The Received Company, Cont. The Received Co. Rev Berry The Received Company, Cont.
lain, Stanfey L. and S. M. do Elivates Castra. Recol of Targetetion inslutio. New York: Surper and THEATHY, 1577.
Cosks, L. M. "Guelogy of Flavida," Flavida Contacted
fooks, f. E. "Ministeness leaderes," Jerres of the Nach- landom Anager of Orleans, Value 18, 1890.
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## NEWSCHOOL SECTOR

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